

REGIONE SICILIANA
ASS. TERRITORIO E AMBIENTE

COMUNE DI S. CIPIRELLO

REGIONE SICILIANA
UFFICIO DEL GENIO CIVILE DI PALERMO

Visto ai sensi dell'art. 13 della Legge 2-2-10
n. 64 con le disposizioni di cui alla nota di
numero e data.

N. 24264/98 Palermo, li 28 LUG. 1999

PIANO REGOLATORE GENERALE



INGEGNERE CAPO FF.
(Ing. J. Amato)

STUDIO GEOLOGICO

COMUNE DI SAN CIPIRELLO
PROV. PALERMO
(UFFICIO TECNICO)

La Commissione edilizia nella
seduta del 15-09-97 n. 29
esaminato il progetto del
Sig. ha espresso
PARERE FAVOREVOLE

IL PRESIDENTE

INDAGINI GEOGNOSTICHE - IMPRESA GINO
GIOVANNI

ALLEGATO ALLA
DELIBERAZIONE DEL
COMMISSARIO AD ACTA

N. 48 del 30 OTT. 2003

IL GEOLOGO
Prof. Vincenzo Liguori

IL COMMISSARIO AD ACTA
(Arch. Mario Tomasino)

COMUNE DI SAN CIPIRELLO

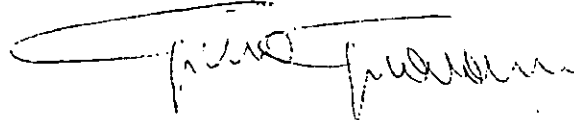
IMPRESA: GINO GIOVANNI

**LAVORI D'INDAGINI GEOGNOSTICHE E GEOTECNICHE
RELATIVE AL P.R.G. DI SAN CIPIRELLO**

RELAZIONE E COLONNE LITOSTRATIGRAFICHE

DOCUMENTAZIONE FOTOGRAFICA

L'IMPRESA

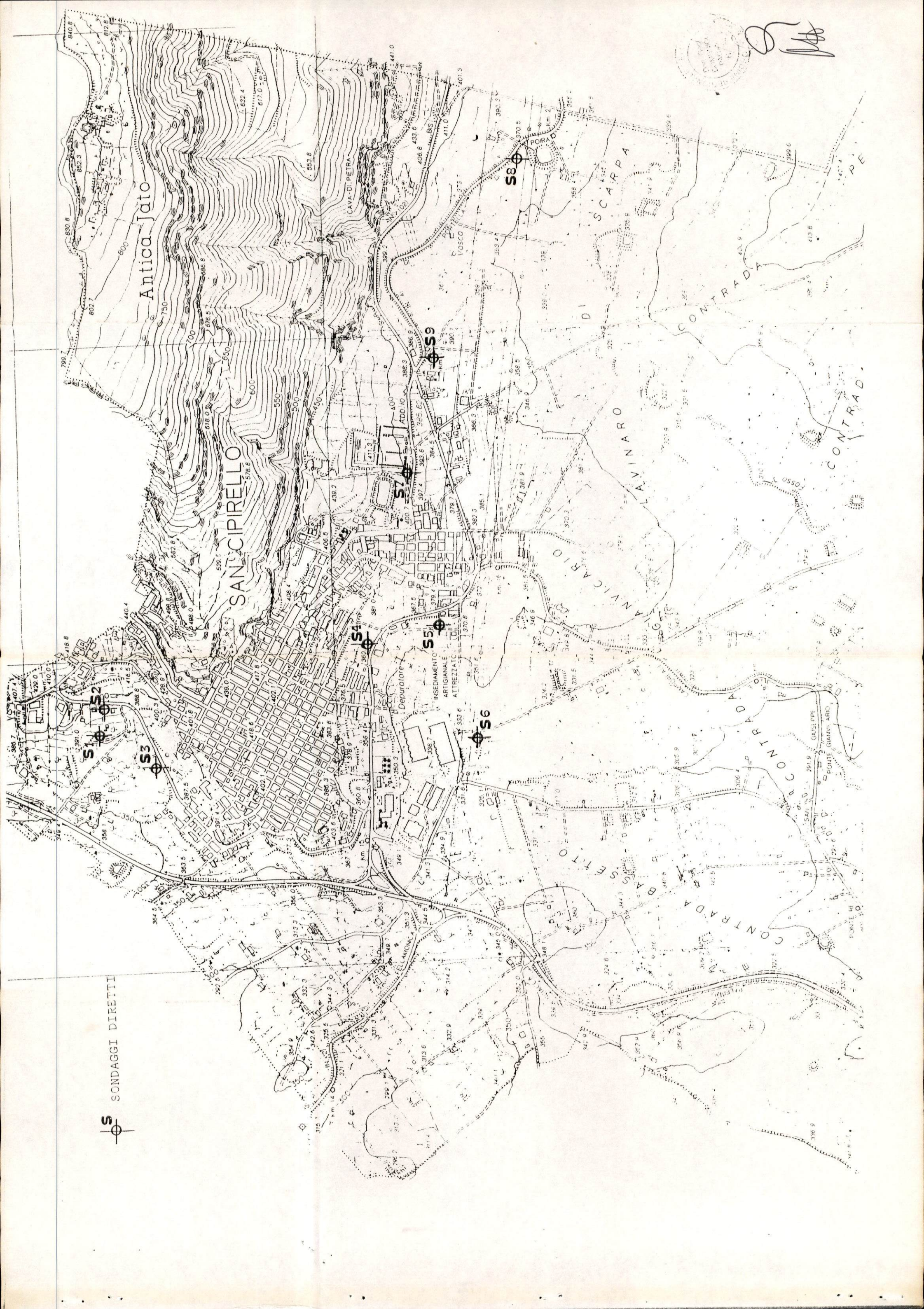


Visto dalla D.L.





SONDAGGI DIRETTI





RELAZIONE DI ACCOMPAGNAMENTO ALLE INDAGINI GEOGNOSTICHE E GEOTECNICHE RIGUARDANTI IL P.R.G. DI SAN CIPIRELLO

INDAGINI DIRETTE MEDIANTE SONDA A ROTAZIONE E PRELIEVO CONTINUO DI CAROTE

L'Impresa Gino Giovanni in data 18/04/96 ha avuto consegnati i lavori d'indagine di cui in oggetto le cui risultanze dovranno accompagnare lo studio geologico riguardante il P.R.G.

Dette indagini sono state effettuate con attrezzatura C6 "CASAGRANDE" con la quale è stato effettuato il prelievo continuo di carote.

Tali carote, provenienti da n° 10 sondaggi sono state conservate in cassette di legno e depositate in un magazzino Comunale.

Il progetto prevedeva una lunghezza complessiva di sondaggi di m 200, e cioè di m 20 per ogni sondaggio.

Era prevista anche la messa in posto di un tubo in P.V.C. forato per la misurazione periodica del livello freatico.

Durante il corso dei lavori la D.L. ritenendo necessaria la esecuzione di pozzetti e la collocazione di sportelli metallici a protezione del tubo piezometrico, ha concordato con l'Impresa il relativo prezzo ed ha dato le relative disposizioni per la loro esecuzione.

La maggiore spesa occorsa per quest'ultimo intervento è stata realizzata riducendo la profondità di n° 4 sondaggi di m 5.00 ciascuno per cui la lunghezza complessiva si è ridotta a m 180.



In dettaglio si ha:

S1 = m 20.00

S2 = m 20.00

S3 = m 20.00

S4 = m 20.00

S5 = m 20.00

S6 = m 15.00

S7 = m 20.00

S8 = m 15.00

S9 = m 15.00

S10 = m 15.00

Totale m 180.00

Durante l'esecuzione dei sondaggi sono stati prelevati n° 20 campioni indisturbati (n° 2 per ogni sondaggio) per la determinazione delle caratteristiche fisiche e meccaniche:

Dalla lettura delle allegate colonne si evidenziano i litotipi attraversati.



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LOCALITA': SAN CIPIRELLO

SONDAGGIO: 1

COMMITTENTE: IMPRESA GINO

DATA: 24/4/98

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni
1	1.0	1		COLTRE AGRARIA, DI COLORE MARRONE COSTITUITA DA ARGILLE ALTERATE E MINUTI DETRITI	80		
1	2.0	2		ARGILLE RIMANEGGiate E PLASTICHE CON INCLUSI MINUTI ELEMENTI LITICI			
5		3		ACCUMULO CAOTICO DI CALCARI MARNOSI BIANCASTRI E DETRITI (PROBABILE CORPO DI PALEOFRANA)			
		4					
		5					
		6					
		7					
1.6	7.0	8		ARGILLE ALTERATE E PLASTICHE DI COLORE DA OCCRACEO A MARRONE, FRAMMISTE A DETRITI CALCAREI			
.8	8.5	9		ARGILLE OCCRACEE, PARZIALMENTE PLASTICHE			
	9.3	10		ARGILLE DI BASE, INTEGRE, DI COLORE GRIGIASTRO			
		11					10.5 C1 11
		12					
		13					
		14					
		15					
		16					
		17					
		18					
		19					18.5 C2 19
10.7	20.0	20					




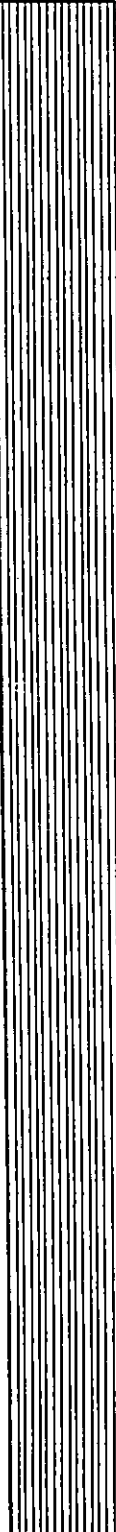


















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LOCALITA': SAN CIPIRELLO

SONDAGGIO: 2

COMMITTENTE: IMPRESA GINO

DATA: 23/04/94

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni		
1.2	1.2	1		COLTRE DI TERRENO AGRARIO, COSTITUITO DA DETRITO E TERRICCIO ROSSASTRO	80				
5.5		2		ACCUMULO CAOTICO DI BRECCIE CALCAREE IN MATRICE MARNOSA, FORTEMENTE RIMANEGGIATA (PROBABILE CORPO DI PALEO FRANA)					
		3							
		4							
		5							
		6							
2.5	8.8	7		ARGILLE MARNOSE ALTERATE, DI COLORE GRIGIO, CON VENATURE OCRACEE, UMIDE E POCO PLASTICHE					
	8								
10.7	9.3	9		ARGILLE MARNOSE INTEGRE, DI COLORE GRIGI, A STRUTTURA COMPATTA, CONSISTENTI					
		10							
		11							
		12							
		13							
		14							
		15							
		16							
		17							
		18							
	20.0	20							
									12.5
							C1		
							13		
							19		
							C2		
							19.5		



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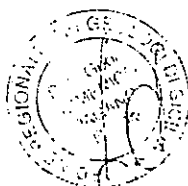
LOCALITA': SAN CIPIRELLO

SONDAGGIO: 3

COMMITTENTE: IMPRESA GINO

DATA: 02/05/94

spessore (m)		profondita' (m)		scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)				campioni	
0.8	1.7	2.5		6.2	1	DETRITI CALCAREI E SABBIE GROSSOLANE BIANCASTRE	80		3.5	C1	4		
		2	ARGILLE BRUNE, RIMANEGGiate E PLASTICHE CON INCLUSI ELEMENTI LITICI										
		3	SABBIE E SABBIE ARGILLOSE, MARRONE-OCRACEE, A GRANA GROSSOLANA, E LIVELLI ARGILLO-SABBIOSI BENE ADDENSATI, DEBOLMENTE PLASTICI										
		4											
		5											
		6											
		7											
		8											
		9	ARGILLE SABBIOSE, DI COLORE GRIGIO, COMPATTE, OMOGENEE, PRESENZA DI UN TROVANTE ARENACEO A m 18.00-18.40										
		10											
		11											
		12											
		13											
		14											
		15											
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		19											
		20											

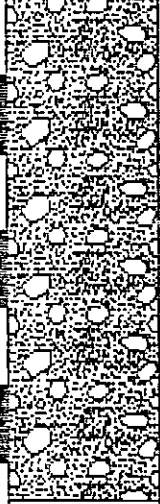

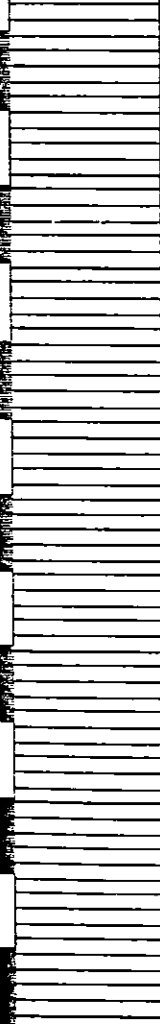



LOCALITA': SAN CIPIRELLO

SONDAGGIO: 4

COMMITTENTE: IMPRESA GINO

DATA: 02/05/94

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (%)	campioni
6.5	6.5	1		ARGILLE MARNOSE ALTERATE E RIMANEGGiate, CON INCLUSI ELEMENTI LITICI PREVALENTEMENTE CALCAREI	80		
		2					
		3					
		4					
		5					
		6					
13.5	13.5	7		ARGILLE MARNOSE E MARNE DELLA FORMAZIONE DI BASE, DI COLORE GRIGIO, CON INTERCALATI LIVELLI TENACI	80		9.5
		8					C1
		9					10
		10					
		11					
		12					
		13					
		14					
		15					
		16					
		17					
		18					17.5
		19					C2
20.0	20.0	20					18





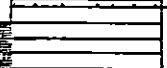
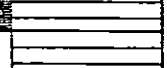
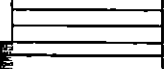
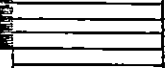
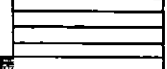
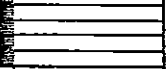
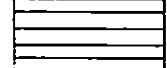
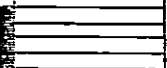
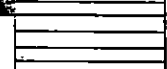
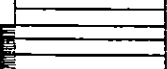
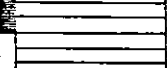
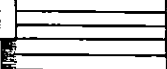
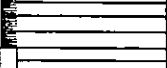
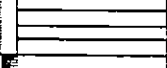
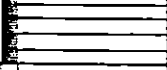
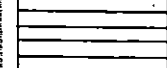
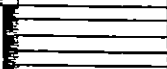
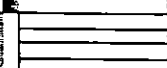
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LOCALITA': SAN CIPIRELLO



SONDAGGIO: 5

COMMITTENTE: IMPRESA GINO

DATA: 29/04/96

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni
1.8		1		ARGILLE MARNOSE DI COLORE OCRACEO, ALTERATE, PLASTICHE, IN PARTE RIMANEGGiate, CON INCLUSI ELEMENTI LITICI			
1	1.8	2		ARGILLE MARNOSE PARZIALMENTE ALTERATE, DI COLORE GRIGIASTRO CON VENATURE OCRACEE, MEDIANTE PLASTICHE			2.5
	2.8	3		ARGILLE MARNOSE GRIGIE, DI BASE, INTEGRE, CON INTERCALATI LIVELLI TENACI			C1
		4					3
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					14
		15					C2
		16					14.5
		17					
		18					
		19					
		20					
17.2	20.0				80		



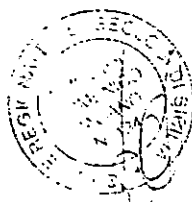
LOCALITA': SAN CIPIRELLO

SONDAGGIO: 5

COMMITTENTE: IMPRESA GINO

DATA: 30/04/96

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni	
1.8	1.8	1		COLTRE AGRARIA COSTITUITA DA MATERIALE COL-LUVIALE DI COLORE SCURO	80			
		2						
4.2		6.0	3			ARGILLE MARNOSE MARRONE PASSANTI A GRIGIE IN PROFONDITA', DA ALTERATE A PARZIALMENTE ALTE-RATE, CON LOCALE PRESENZA DI SCAGLIETTE		3
			4					C1
			5					3.5
			6					
9	15.0	7		FORMAZIONE ARGILLO-MARNOSEA DI BASE, GRIGIA, A STRUTTURA OMOGENEA, COMPATTA, CON RARI LIVEL-LI TENACI			10	
		8					C2	
		9					10.5	
		10						
		11						
		12						
		13						
		14						
			15					





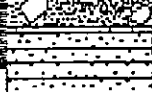

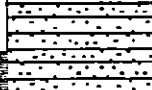

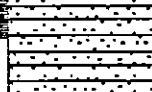

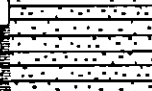
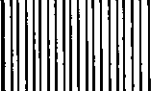
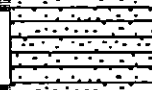
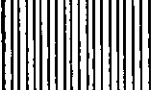
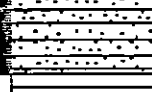
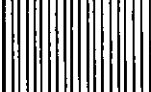
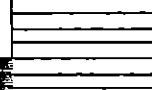

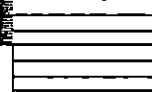



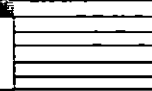

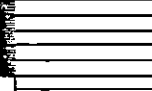
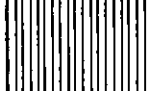
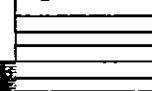

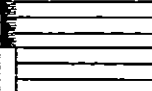

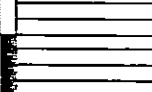

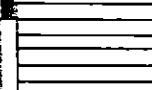
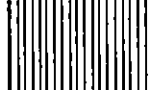
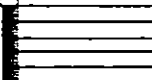

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LOCALITA': SAN CIPIRELLO

SONDAGGIO: 7

COMMITTENTE: IMPRESA GINO

DATA: 02/05/96

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni
1.5	1.5	1		COPERTURA DI ARGILLE ALTERATE E PLASTICHE CON INCLUSI DETRITI E BRECCIOLINE	80		
6.5		2		ARGILLE MARNOSE CORACEE, ALTERATE E PLASTICHE, A STRUTTURA OMOGENEA, COMPATTE, CONSISTENTI IN PROFONDITA'			
		3					3
		4					C1
		5					3.4
		6					
		7					
		8					
12	6.0	9		ARGILLE ED ARGILLE MARNOSE GRIGIE, CONSISTENTI E COMPATTE			
		10					
		11					
		12					
		13					
		14					
		15					
		16					15
		17					C2
		18					15.5
		19					
		20.0	20				



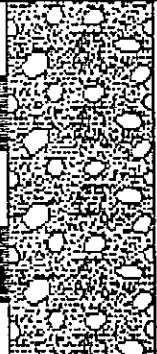
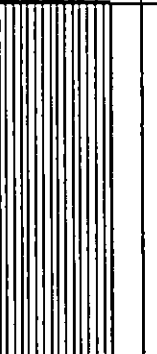
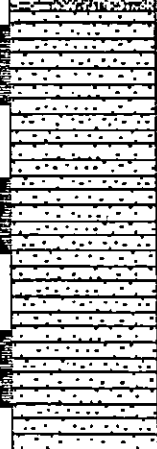

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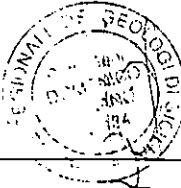
LOCALITA': SAN CIPIRELLO

SONDAGGIO: 8

COMMITTENTE: IMPRESA GINO

DATA: 02/05/96

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni	
4.8		1		COLTRE DI ALTERAZIONE, DI COLORE MARRONE, COSTITUITA DA ARGILLE RIMANEGGiate E PLASTICHE, CON INCLUSI ELEMENTI LITICI	80			
		2						
		3						
		4						
5.8	4.8	5		ARGILLE DI COLORE OCRAceo, ALTERATE, PLASTICHE, OMOGENEE			5	
		6					C1	
		7					5.5	
		8						
		9						
		10						
4.3	10.7	11		ARGILLE MARNOSE E MARNE, DI COLORE GRIGIO, COMPATTE E TENACI, APPARTENENTI ALLA FORMAZIONE DI BASE. PRESENZA DI UN LIVELLO TENACE DA m 14.00 A m 14.50			12	
		12					C2	
		13					12.5	
		14						
		15						
	15.0							





9
PT

LOCALITA': SAN CIPIRELLO

SONDAGGIO: 9

COMMITTENTE: IMPRESA GINO

DATA: 02/05/96

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni	
1.5	1.5	1		TERRENO AGRARIO DI COLORE MARRONE, COSTITUITO DA ARGILLE SCURE ALTERATE, DEBOLMENTE RIMANEGGiate, CON RARI INCLUSI LITICI DI PICCOLA TAGLIA	80			
2.5		2		ARGILLE ELUVIALI DI COLORE MARRONE OCRAEO, PLASTICHE			2.5	
		3					C1	
11	4.0	4					ARGILLE MARNOSE GRIGIE, COMPATTE, PRESENZA DI LIVELLI TENACI A m 9.00-9.70, 11.60-12.00, 14.20-15.00	3
		5						5
		6						C2
		7						5.5
		8						
		9						
		10						
		11						
		12						
		13						
		14						
		15.0						15





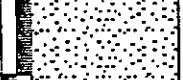

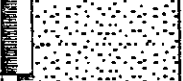









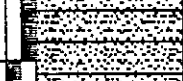





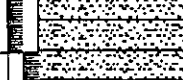

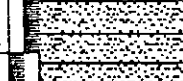

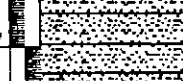

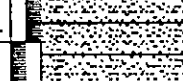

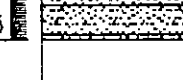

⑤
R
H

LOCALITA': SAN CIPIRELLO

SONDAGGIO: 10

COMMITTENTE: IMPRESA GINO

DATA: 02/05/96

spessore (m)	profondita' (m)	scala 1:100	stratigrafia	descrizione	perforaz. (mm)	carotaggio (m)	campioni
1		1		DETRITI CALCAREI DI VARIA PEZZATURA			
3.1	1.0	2		SABBIE GROSSOLANE GIALLASTRE, A COMPONENTE ARGILLOSA			
		3					
	4.1	4					4
10.9		5		ARGILLE SABBIOSE INTEGRE, DI BASE, A STRUTTURA OMOGENEA			C1 4.5
		6					
		7					
		8			80		8
		9					C2 8.5
		10					
		11					
		12					
		13					
		14					
	15.0	15					



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SONDAGGIO

1

CASSETTA

1

da m 0.00 a m 5.80



SONDAGGIO

1

CASSETTA

2

da m 5.80 a m 10.50



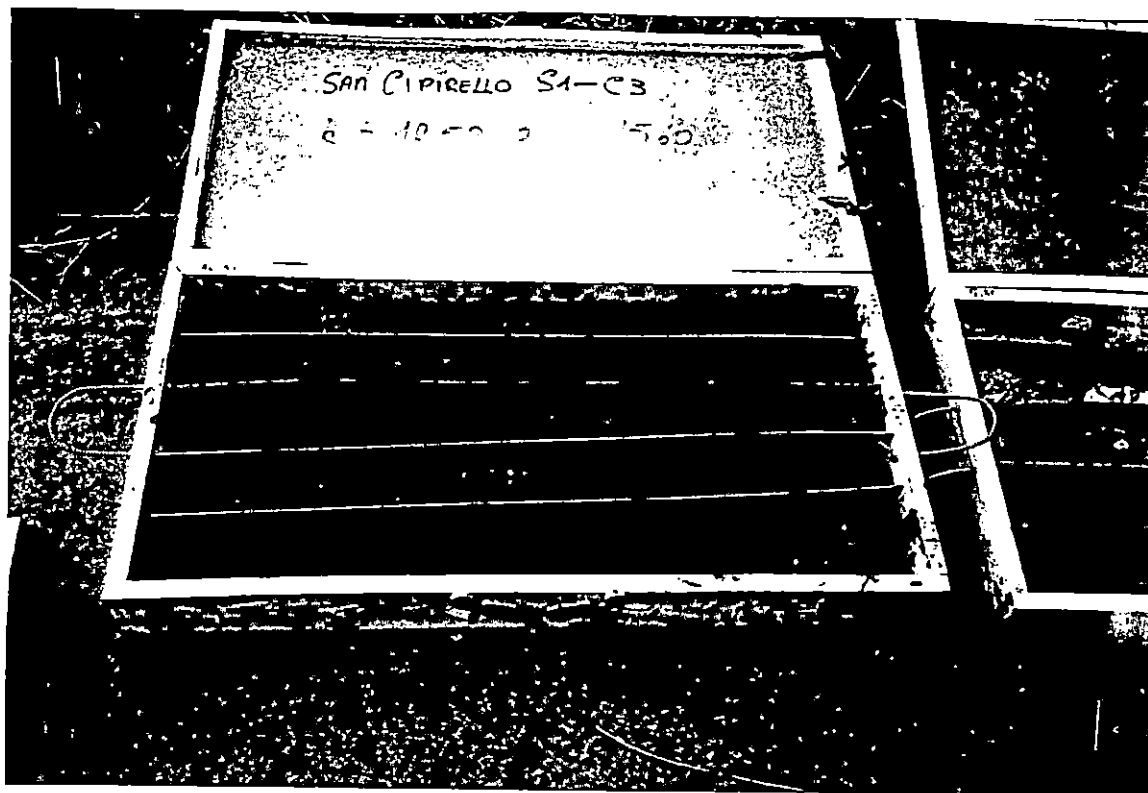
SONDAGGIO

1

CASSETTA

3

da m 10.50 a m 15.60



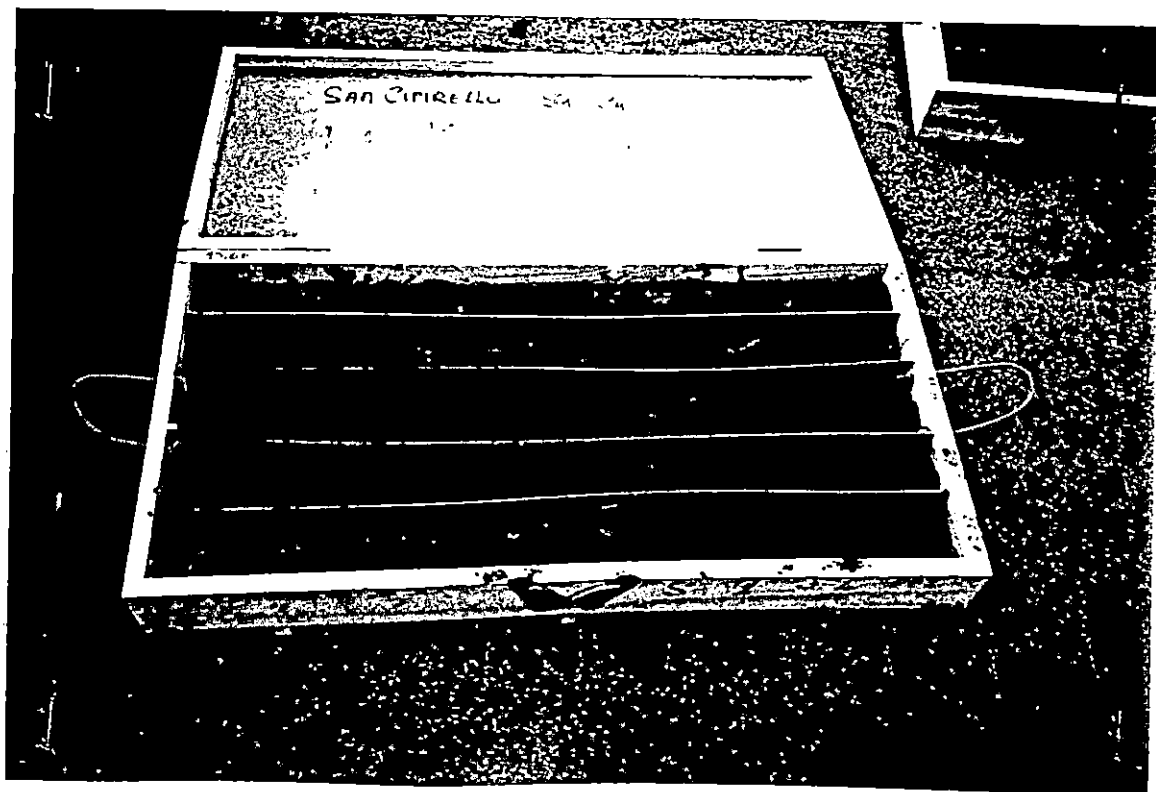
SONDAGGIO

1

CASSETTA

4

da m 15.60 a m 20.20



Q
NA

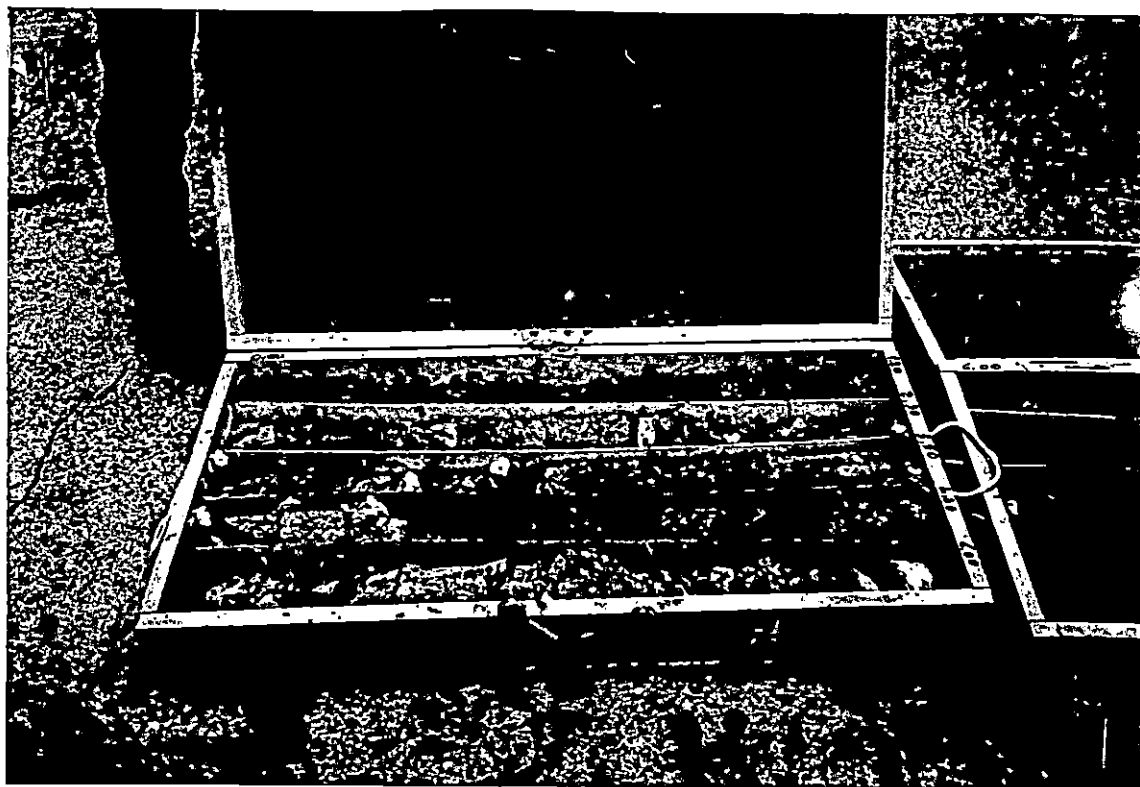
SONDAGGIO

2

CASSETTA

1

da m 0.00 a m 6.00



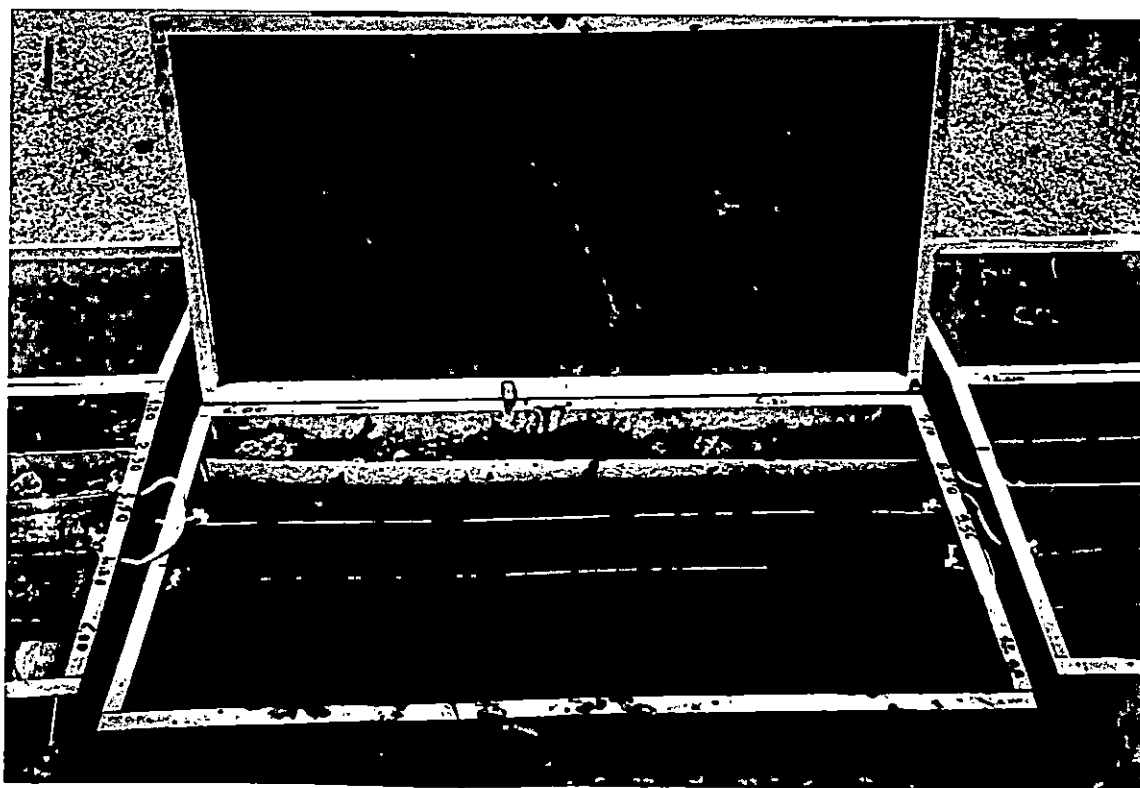
SONDAGGIO

2

CASSETTA

2

da m 6.00 a m 12.00



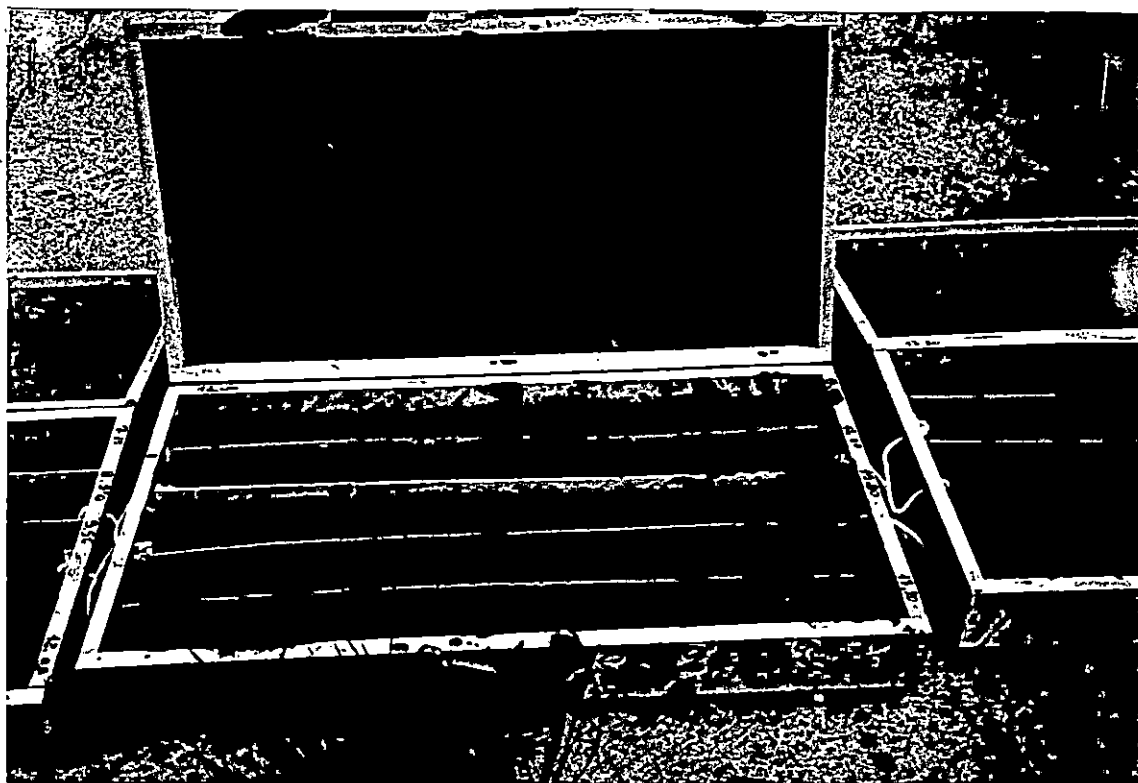
SONDAGGIO

2

CASSETTA

3

da m 12.00 a m 17.30



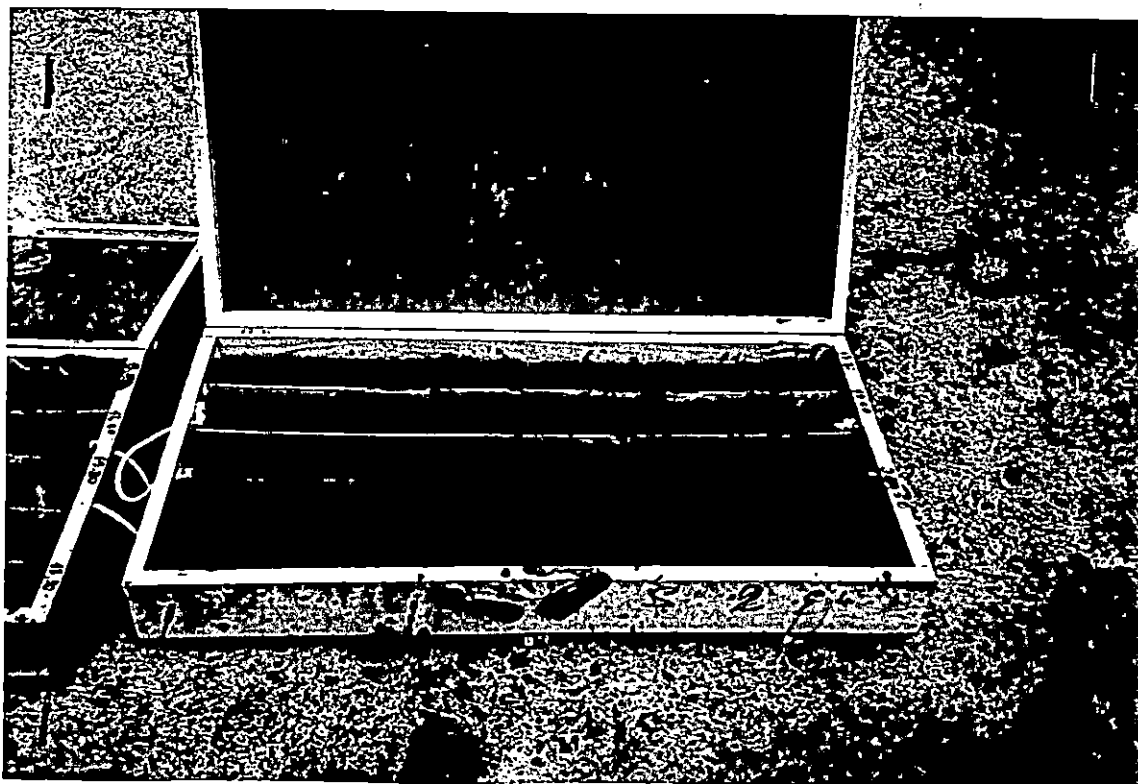
SONDAGGIO

2

CASSETTA

4

da m 17.30 a m 20.50



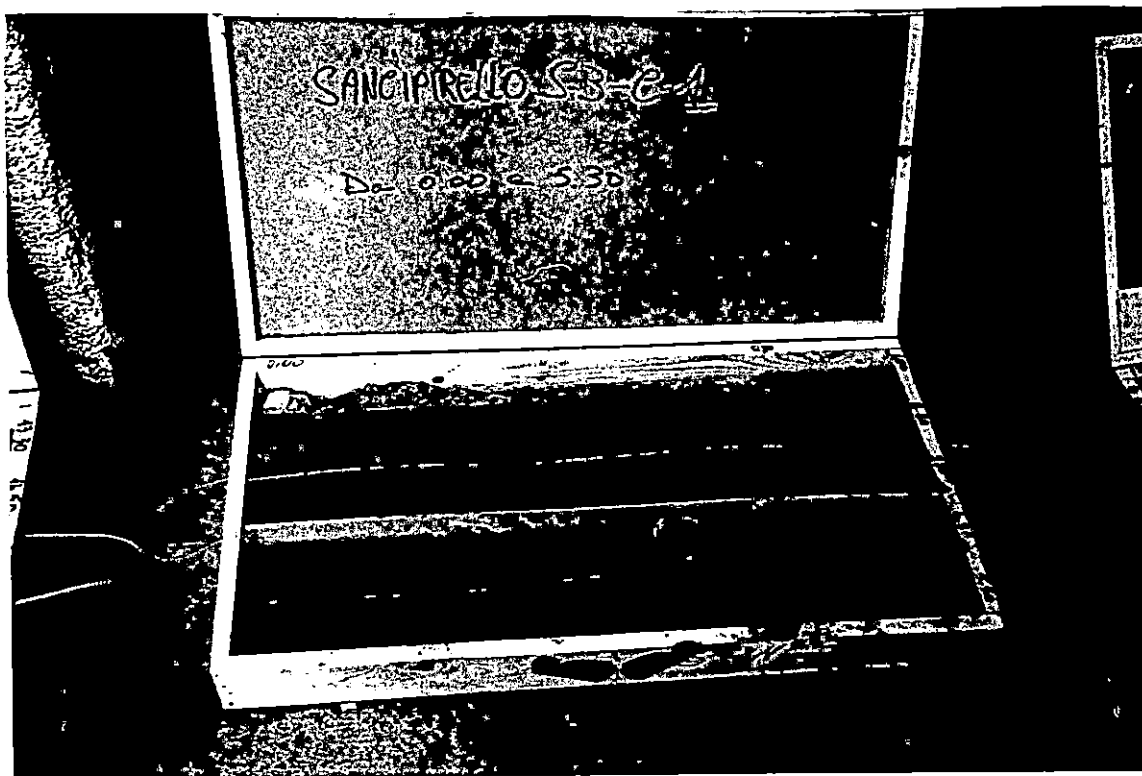
SONDAGGIO

3

CASSETTA

1

da m 0.00 a m 5.30



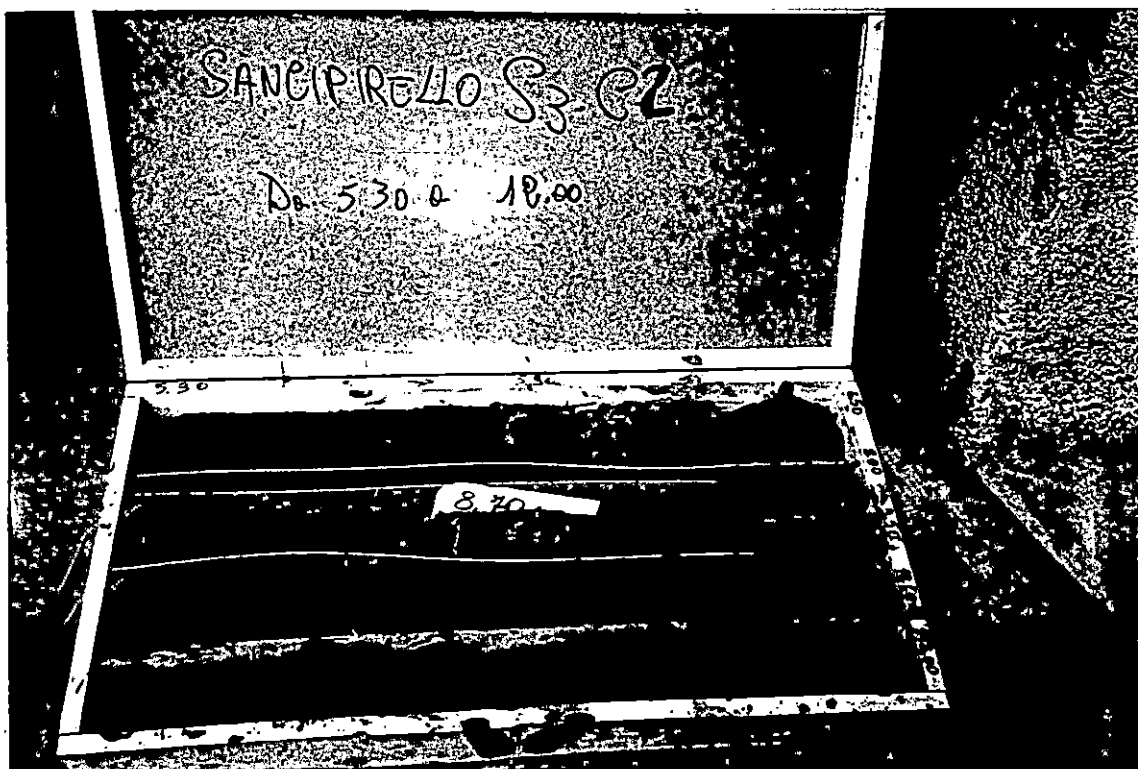
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3

CASSETTA

2

da m 5.30 a m 12.00



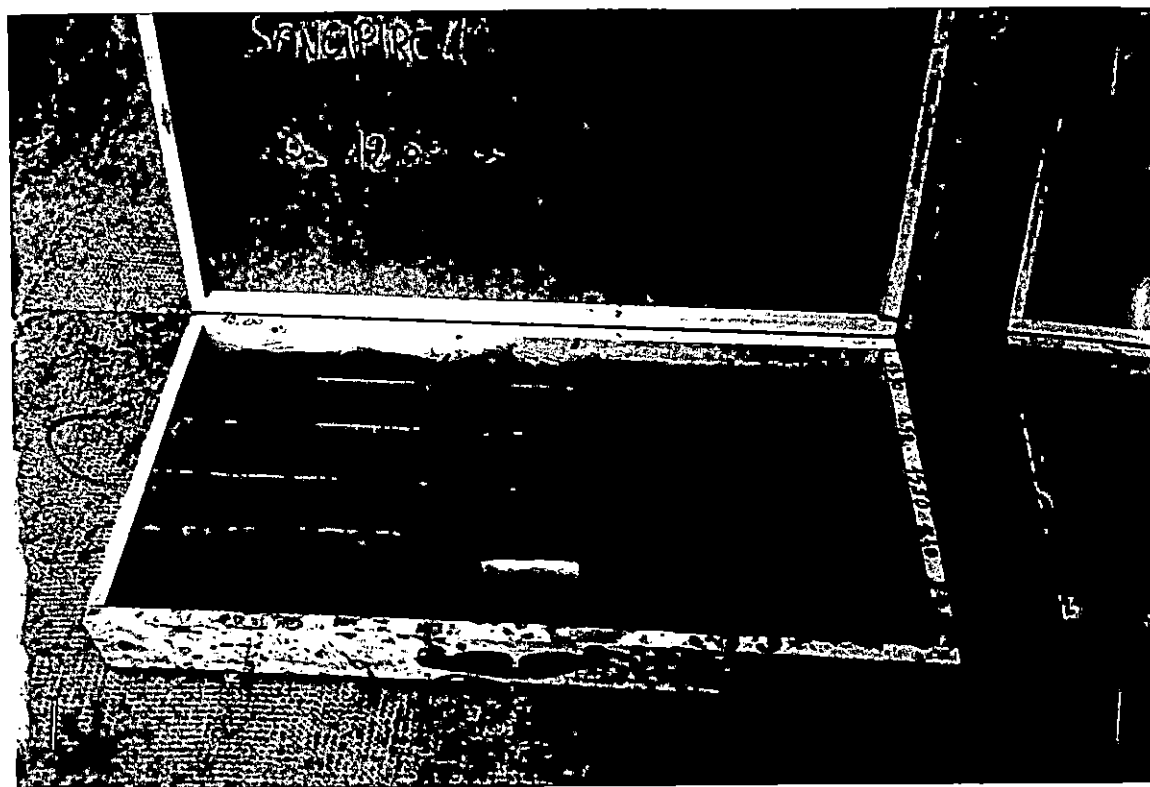
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3

CASSETTA

3

da m 12.00 a m 18.00



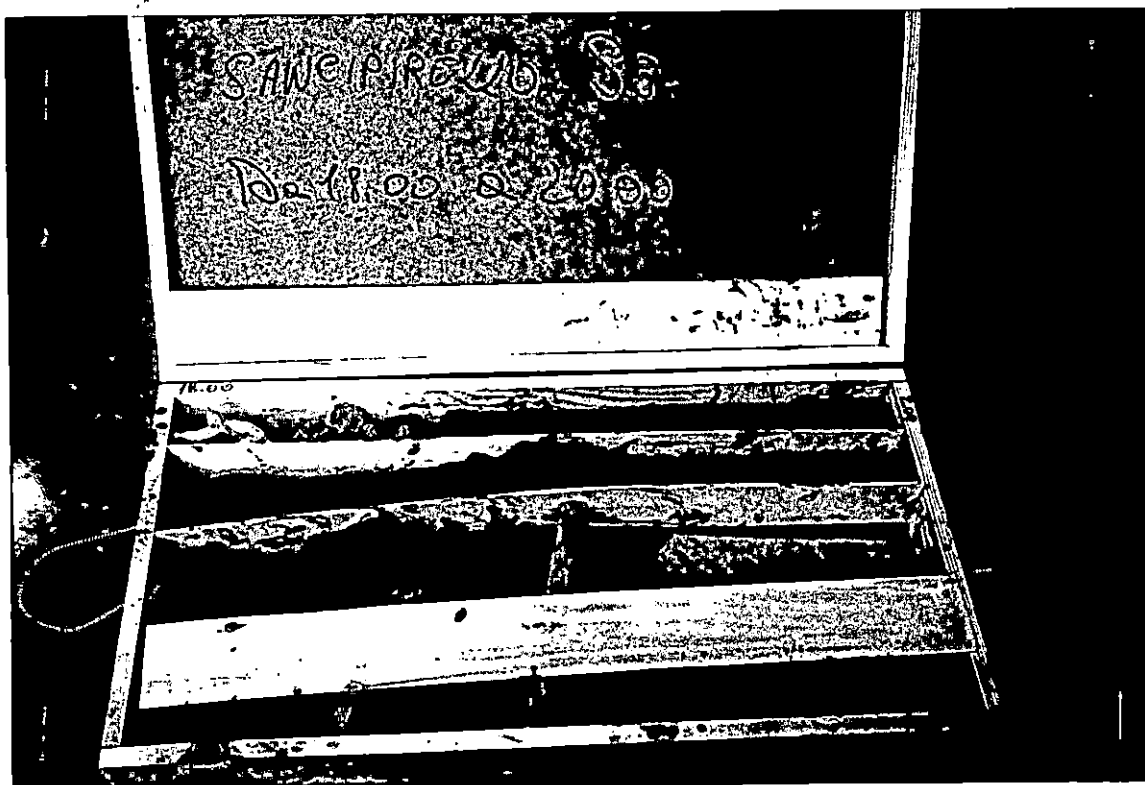
SONDAGGIO

3

CASSETTA

4

da m 18.00 a m 20.00



Q
PA

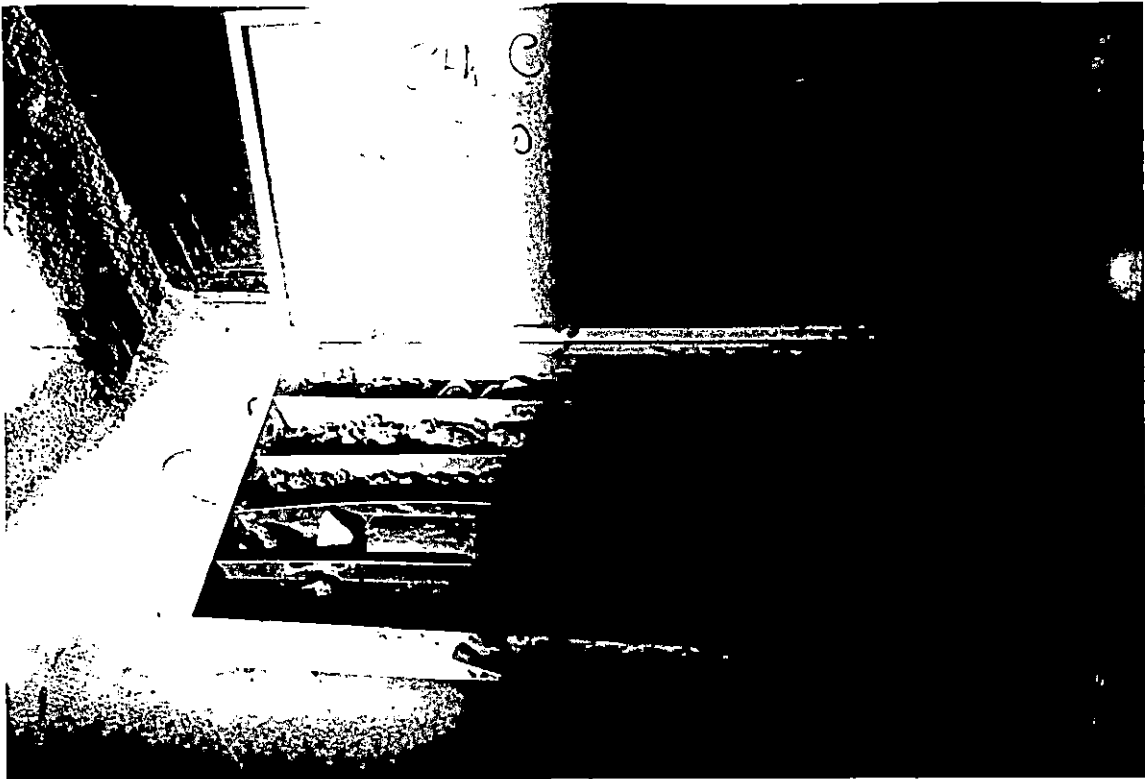
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4

CASSETTA

1

da m 0.00 a m 5.30



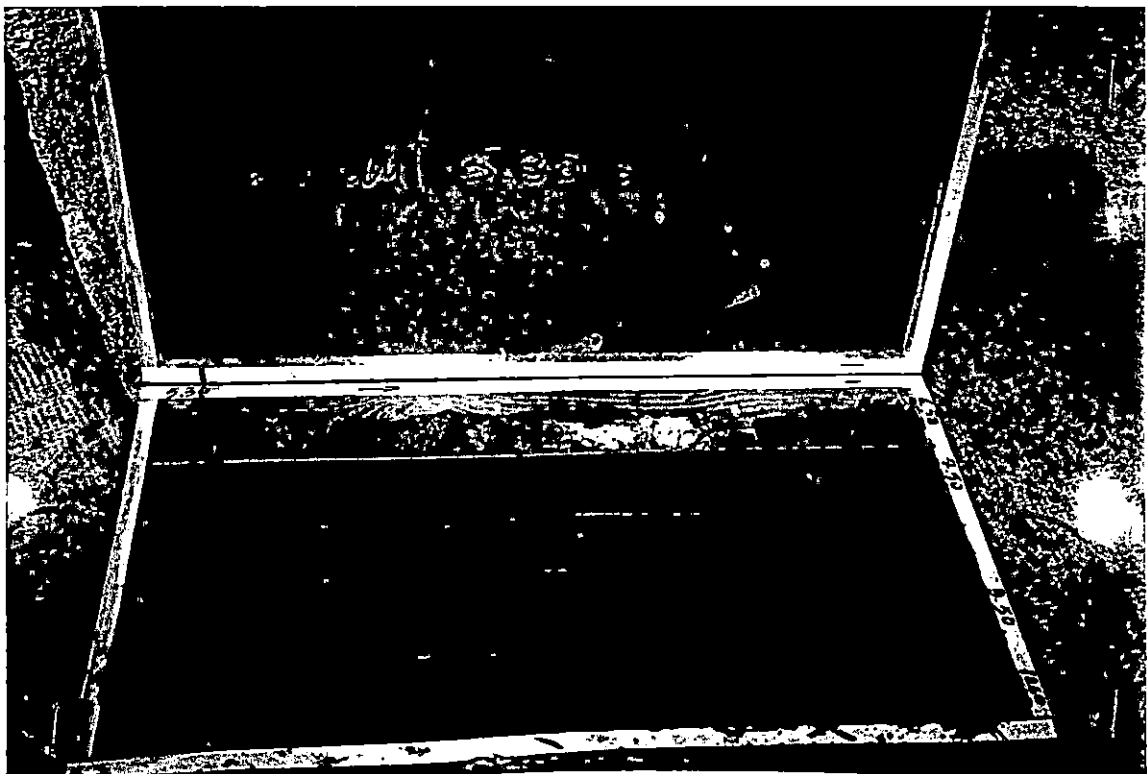
SONDAGGIO

4

CASSETTA

2

da m 5.30 a m 10.60



Q
NA

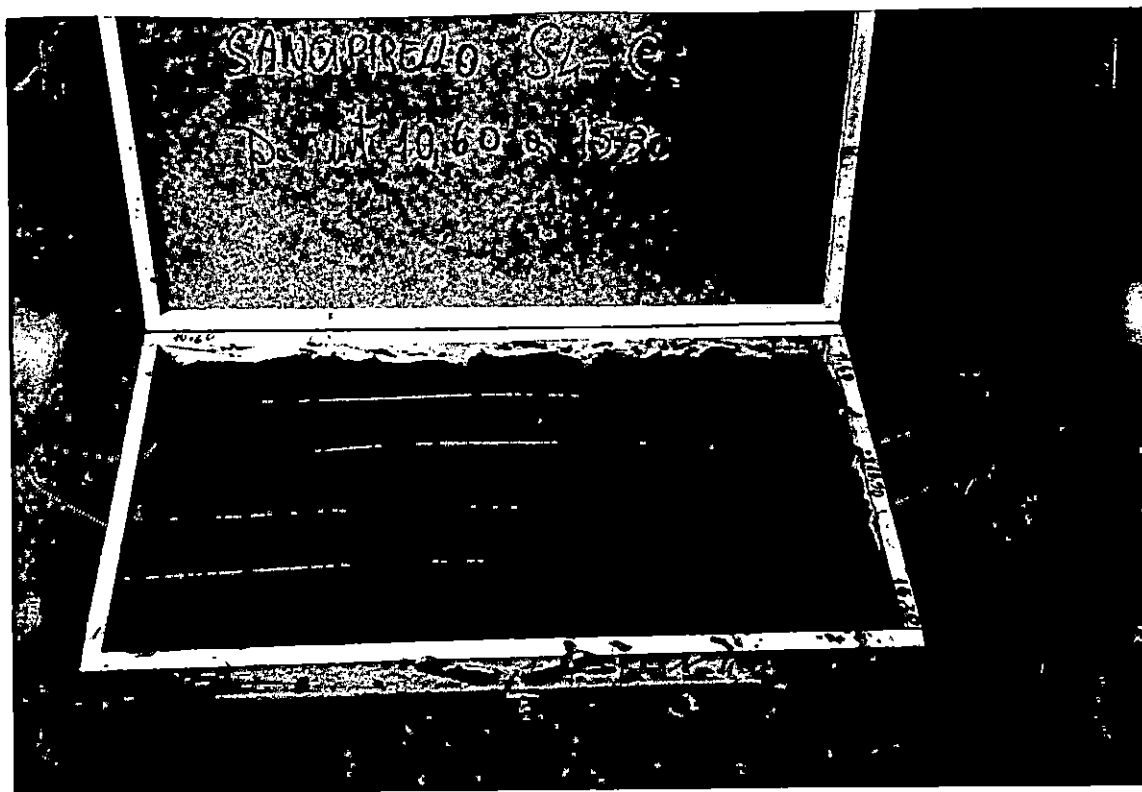
SONDAGGIO

4

CASSETTA

3

da m 10.60 a m 15.30



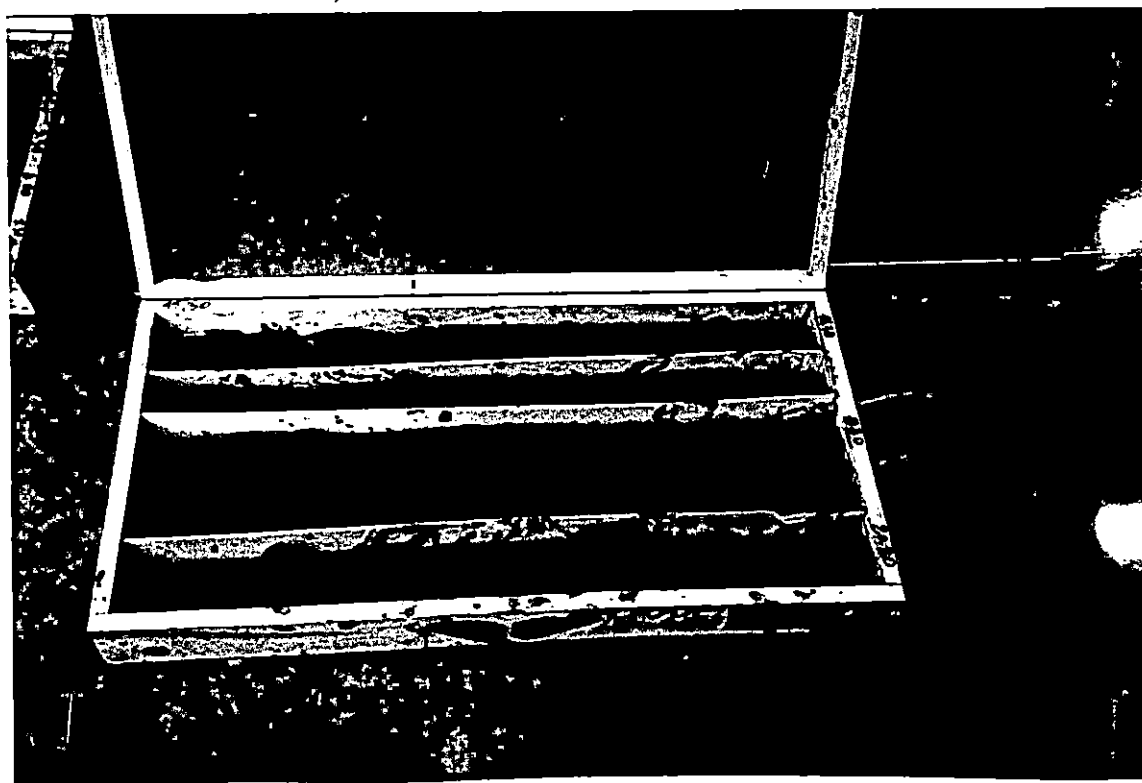
SONDAGGIO

4

CASSETTA

4

da m 15.30 a m 20.20



Q
PA

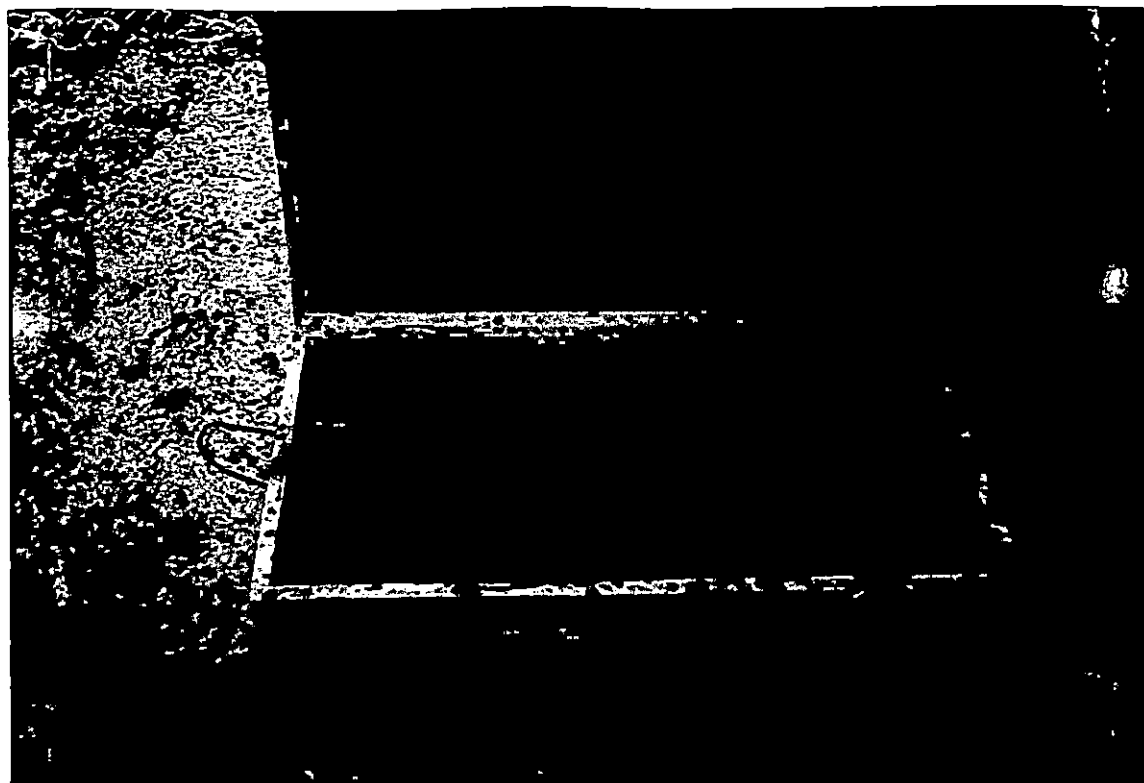
SONDAGGIO

5

CASSETTA

1

da m 0.00 a m 5.60



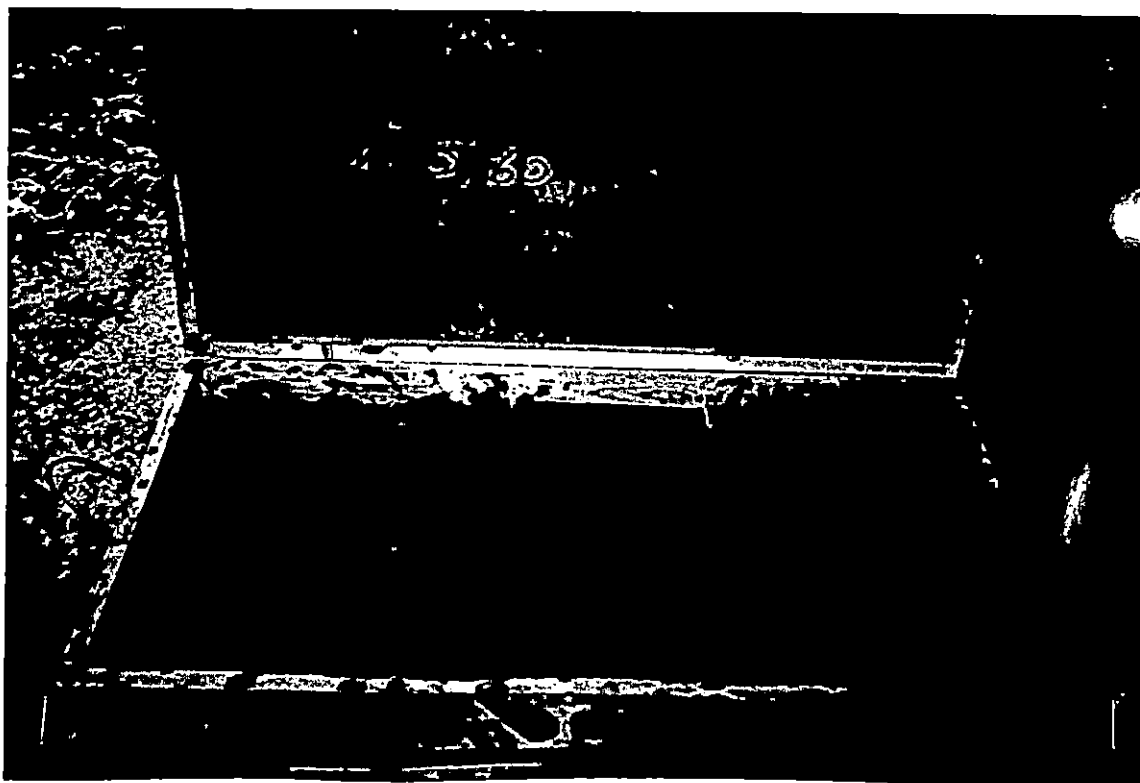
SONDAGGIO

5

CASSETTA

2

da m 5.60 a m 10.50



Q
H

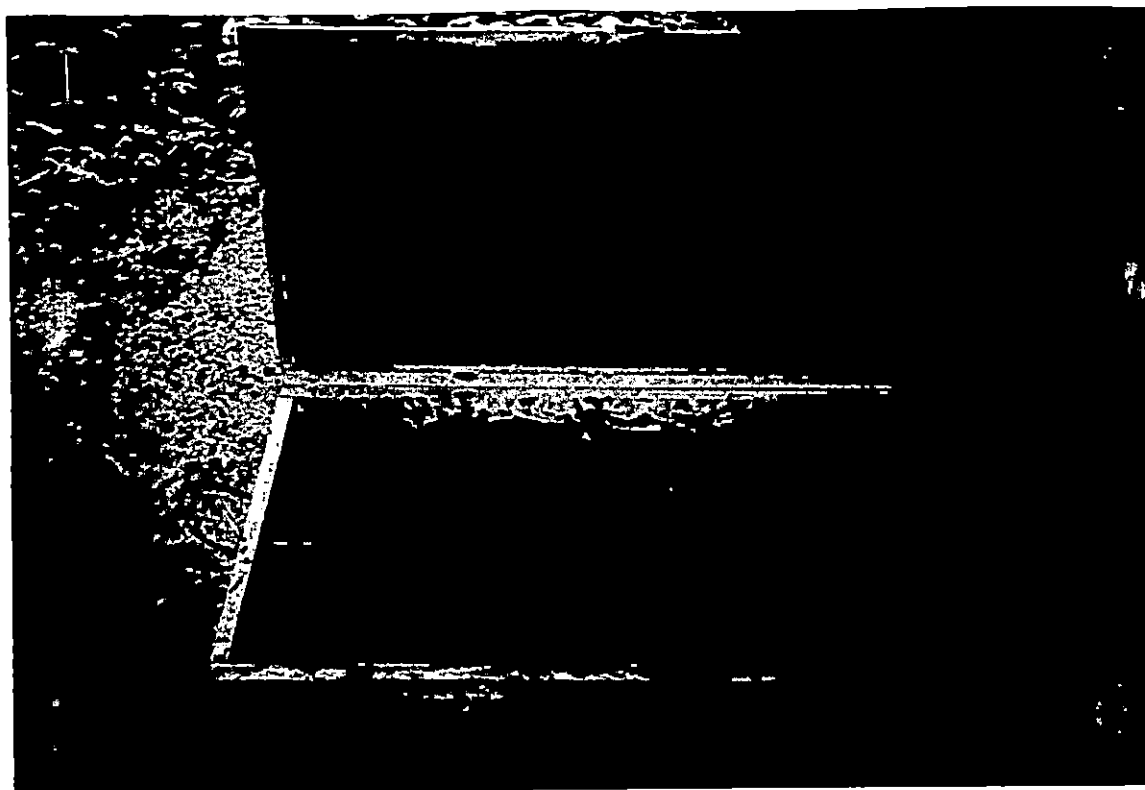
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5

CASSETTA

3

da m 10.50 a m 15.20



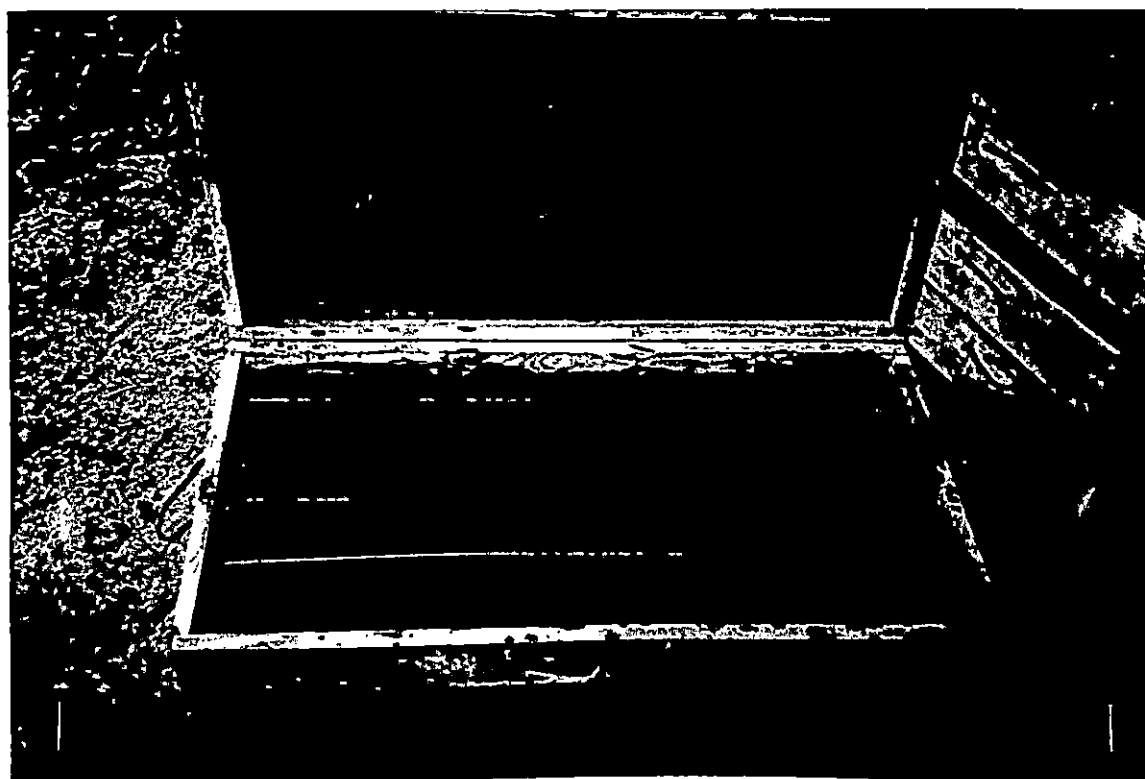
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5

CASSETTA

4

da m 15.20 a m 20.00



Q
H

SONDAGGIO

6

CASSETTA

1

da m 0.00 a m 5.20



SONDAGGIO

6

CASSETTA

2

da m 5.20 a m 10.00



9
KCH

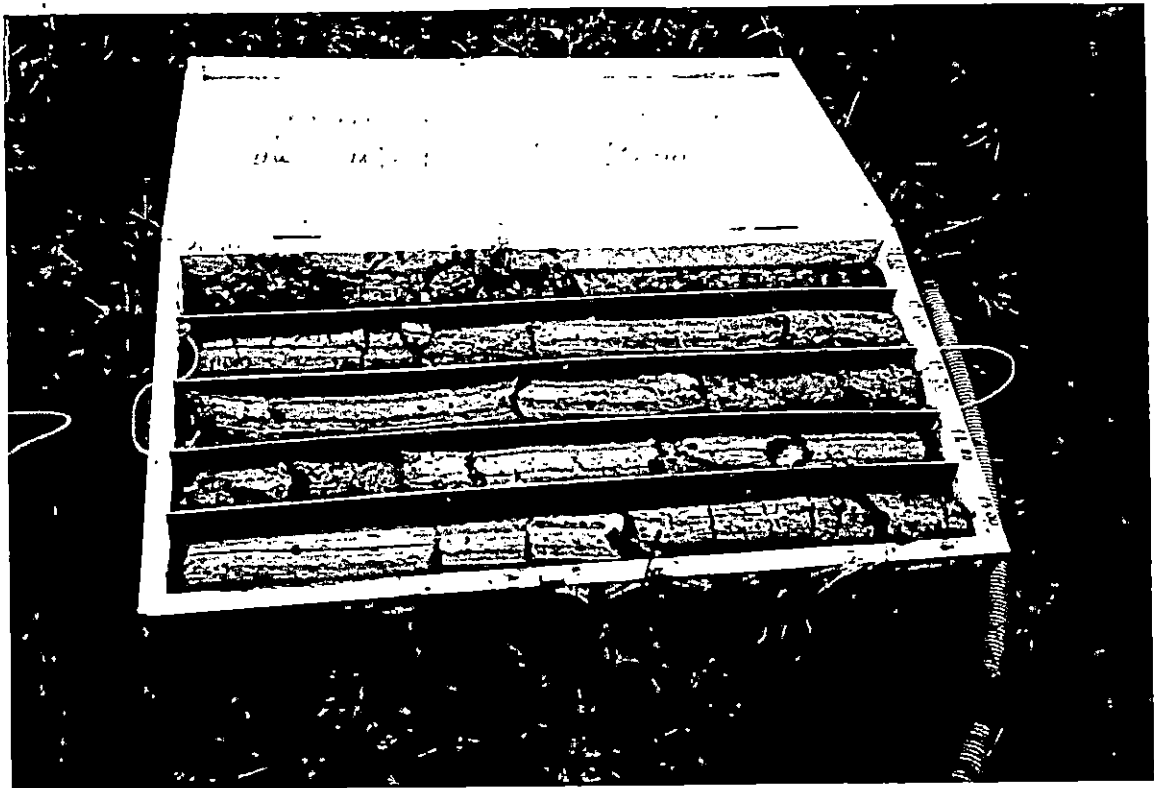
SONDAGGIO

6

CASSETTA

3

da m 10.00 a m 15.00



9
13/11

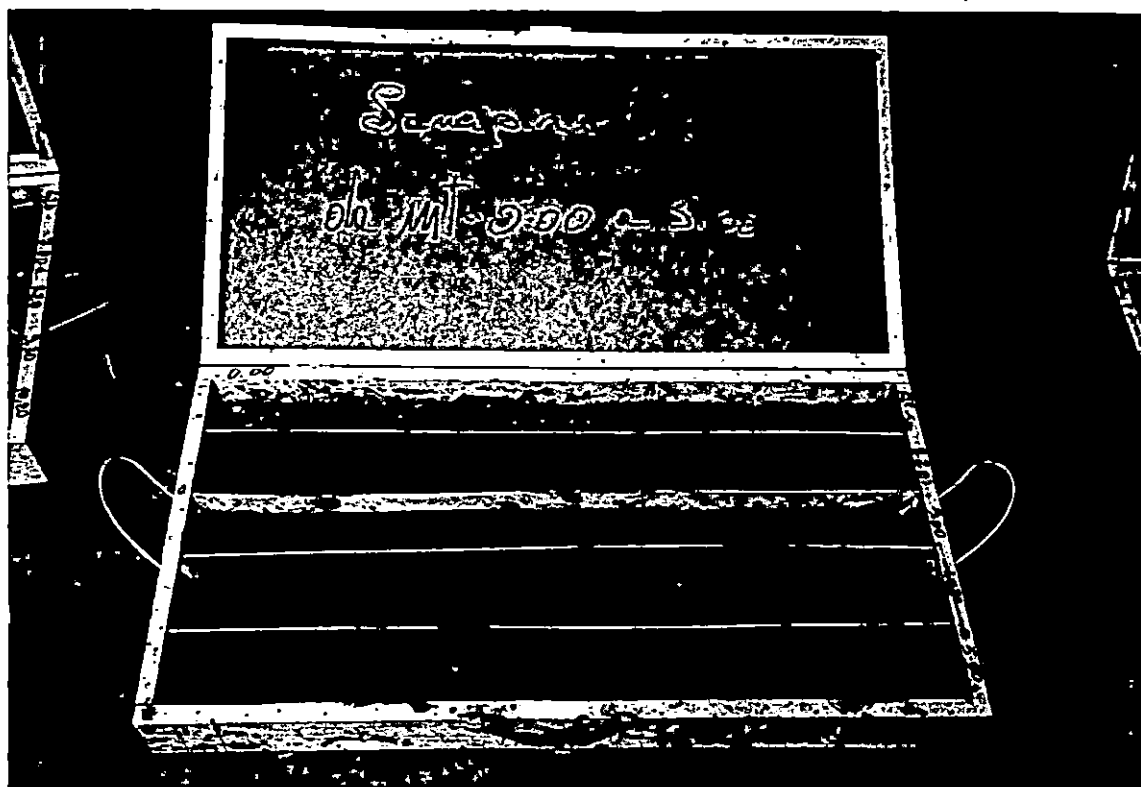
SONDAGGIO

7

CASSETTA

1

da m 0.00 a m 5.00



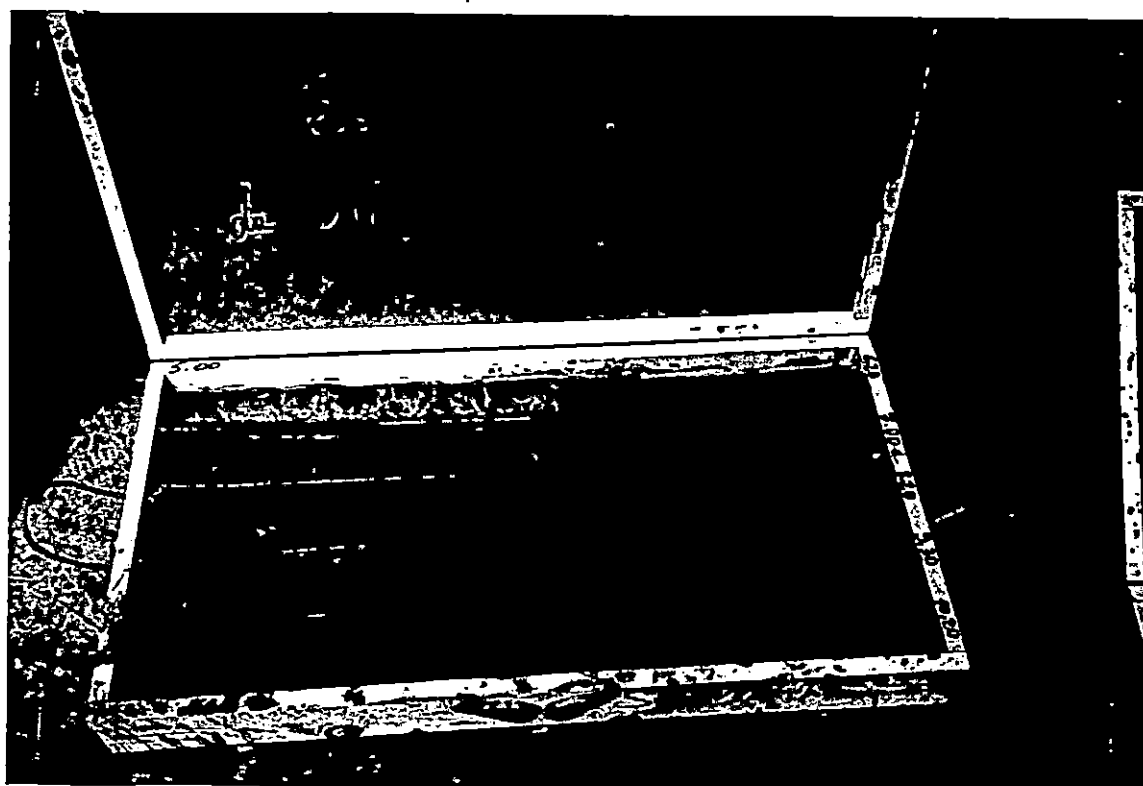
SONDAGGIO

7

CASSETTA

2

da m 5.00 a m 10.20



9
P.H.

SONDAGGIO

7

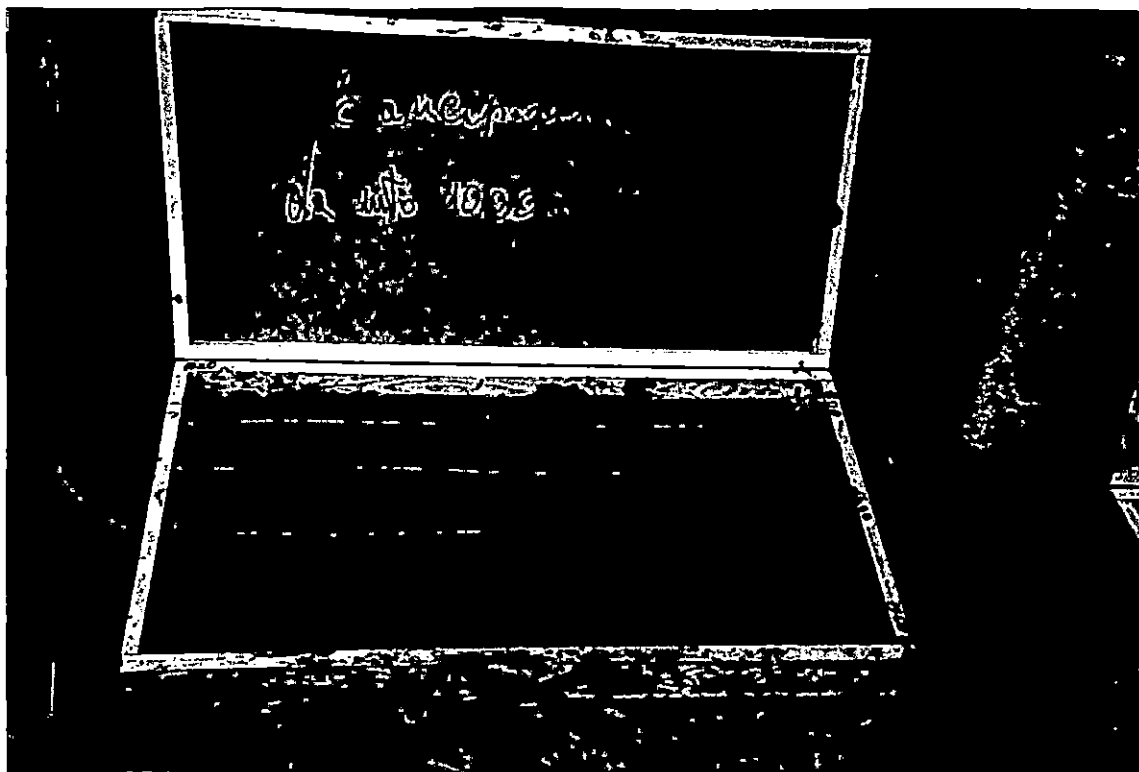
CASSETTA

3

da m 10.20

a m

15.00



SONDAGGIO

7

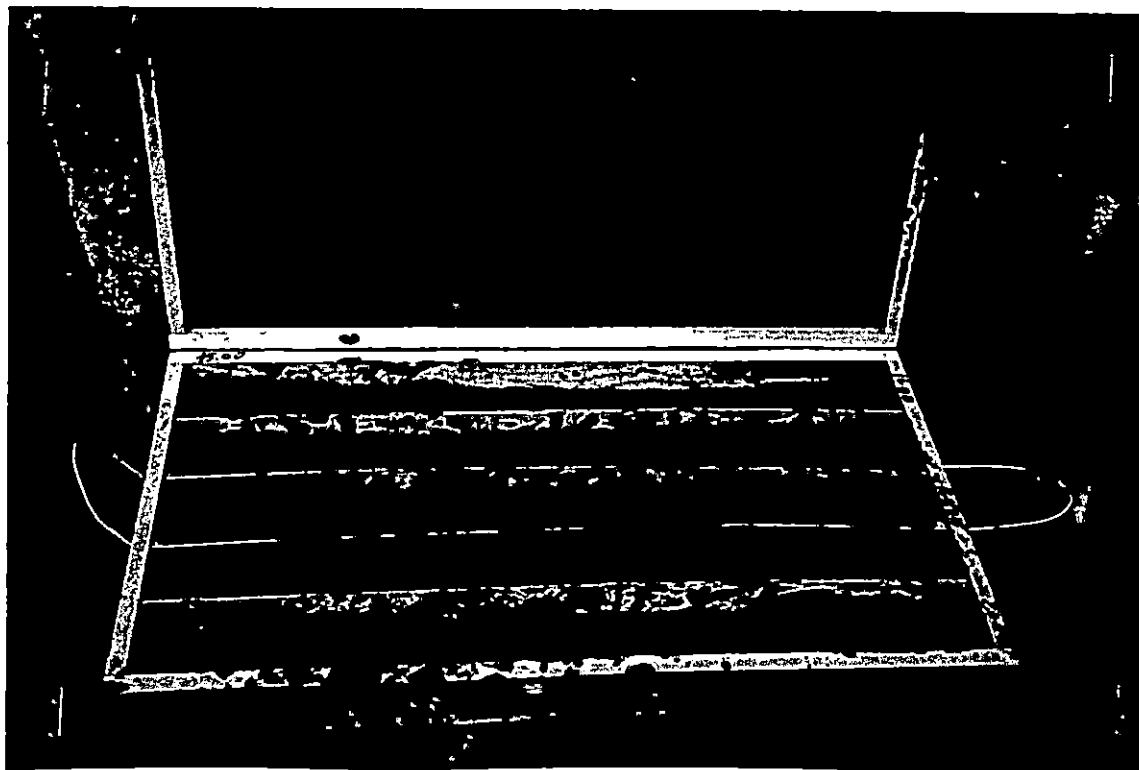
CASSETTA

4

da m 15.00

a m

20.00



9
M

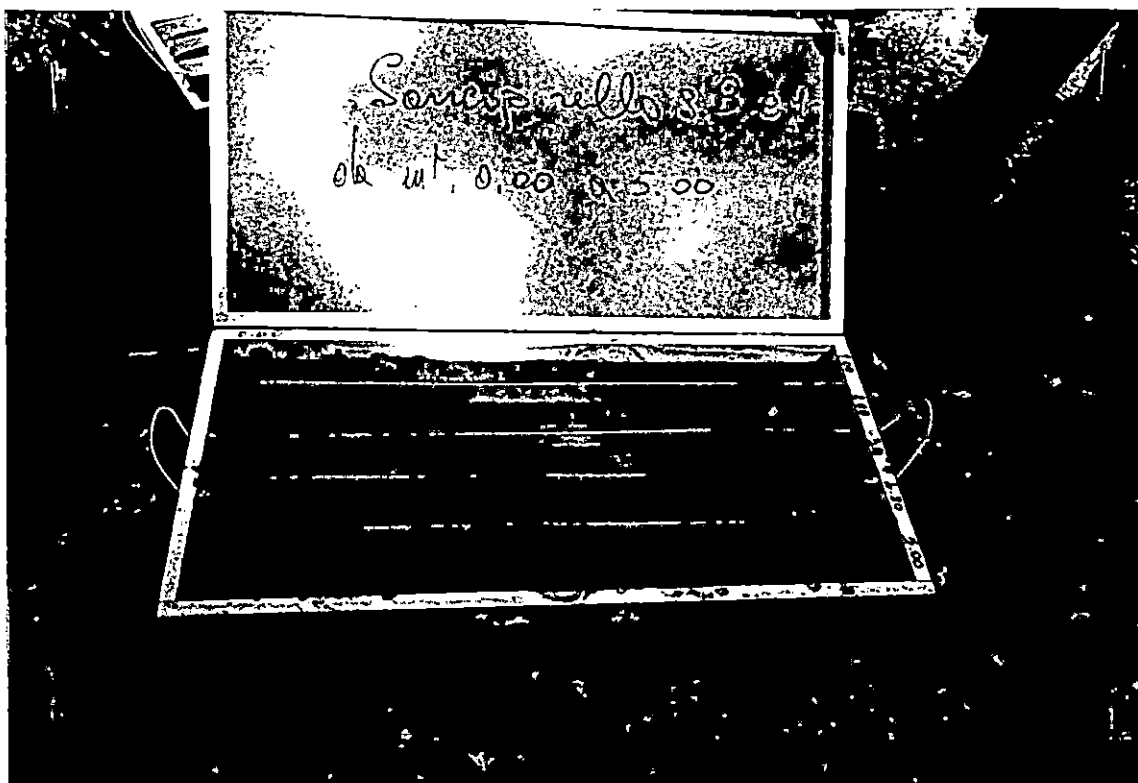
SONDAGGIO

8

CASSETTA

1

da m 0.00 a m 5.00



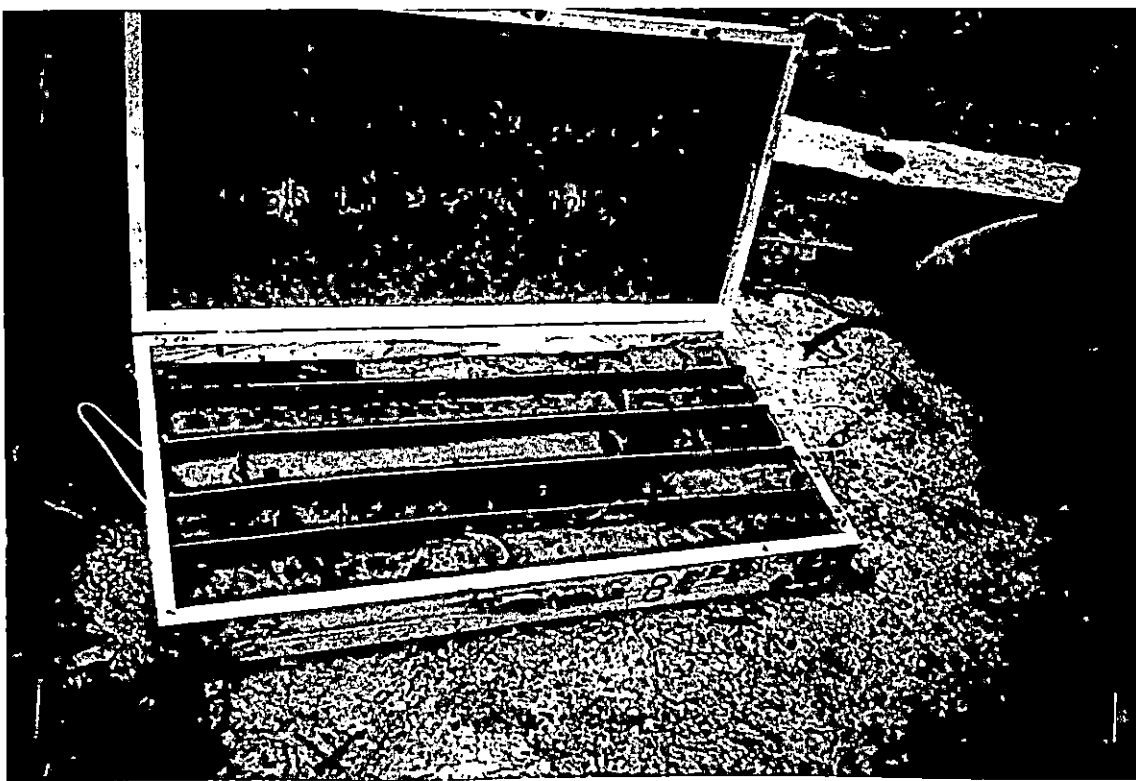
SONDAGGIO

8

CASSETTA

2

da m 5.00 a m 10.20



9
JA

SONDAGGIO

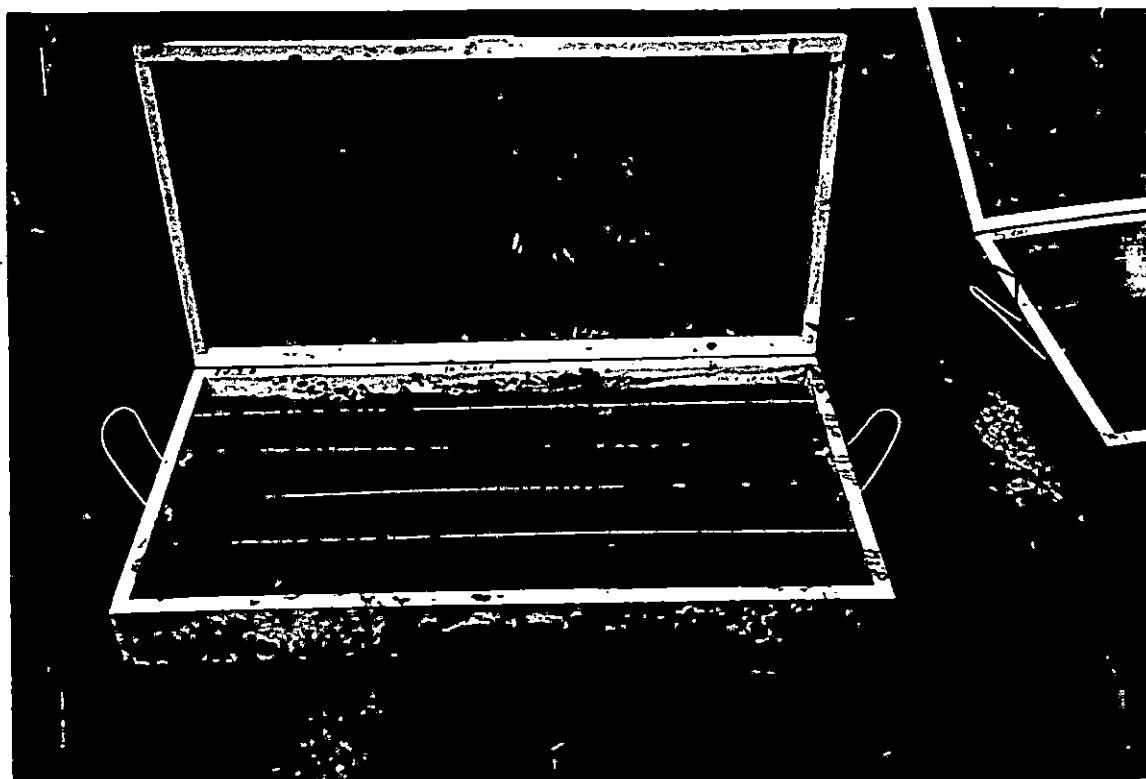
8

CASSETTA

3

da m 10.20

a m 15.00



Q
PA.

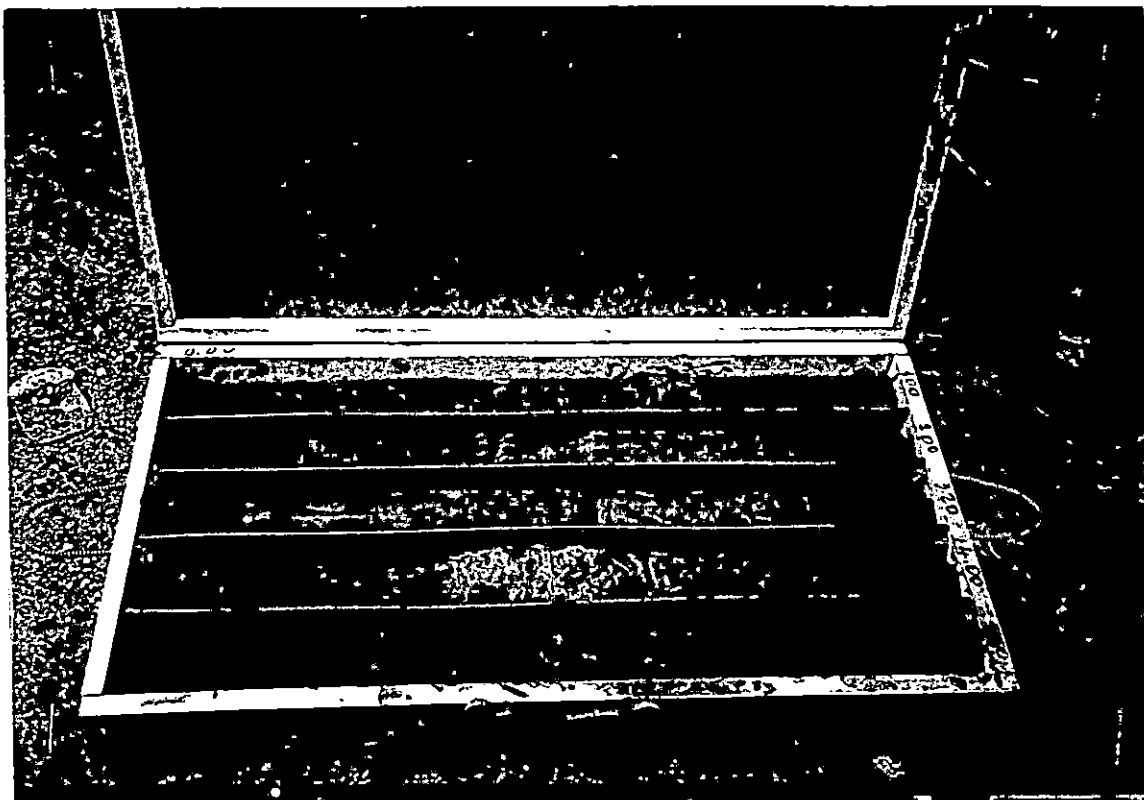
SONDAGGIO

9

CASSETTA

1

da m 0.00 a m 5.00



SONDAGGIO

9

CASSETTA

2

da m 5.00 a m 10.00



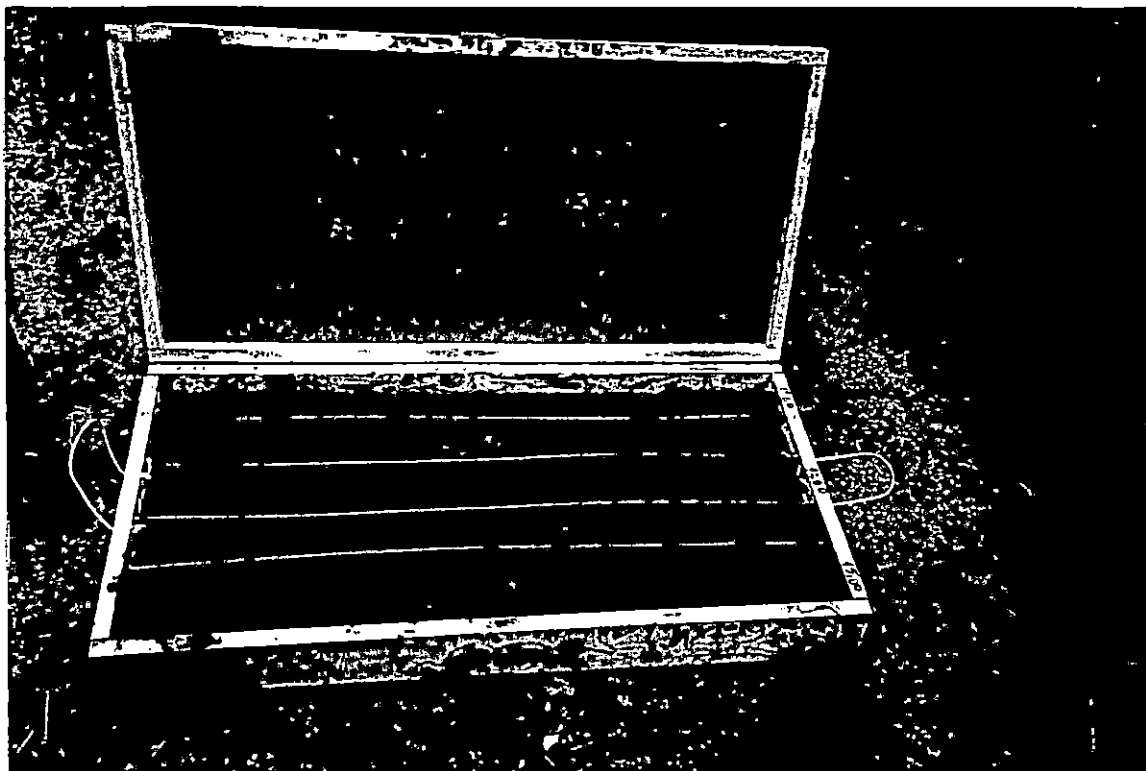
SONDAGGIO

9

CASSETTA

3

da m 10.00 a m 15.00



Q
NA